



FIG. 2

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SECURED AIRLINE SERVER

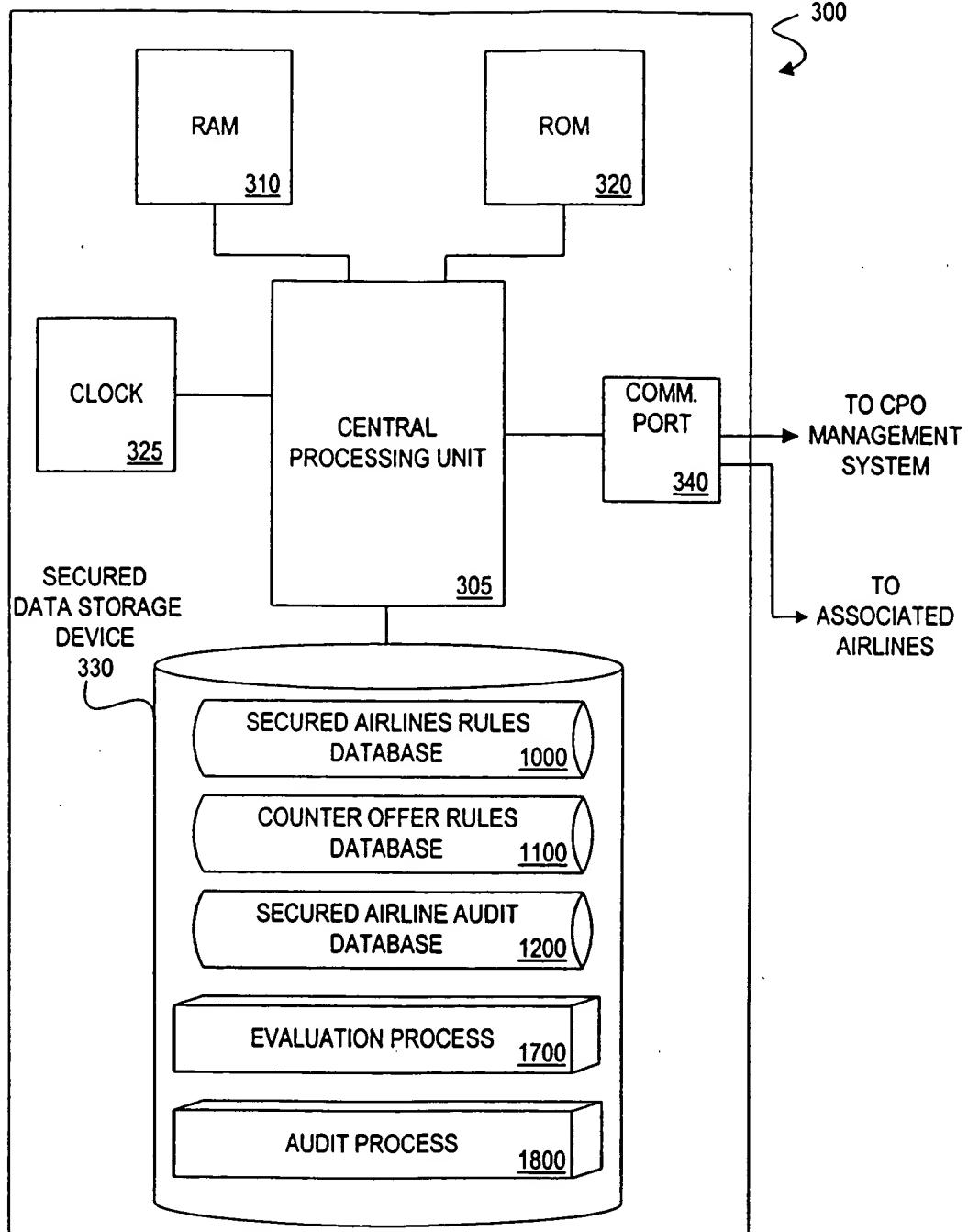


FIG. 3

CENTRAL RESERVATION  
SYSTEM CENTRAL SERVER

400

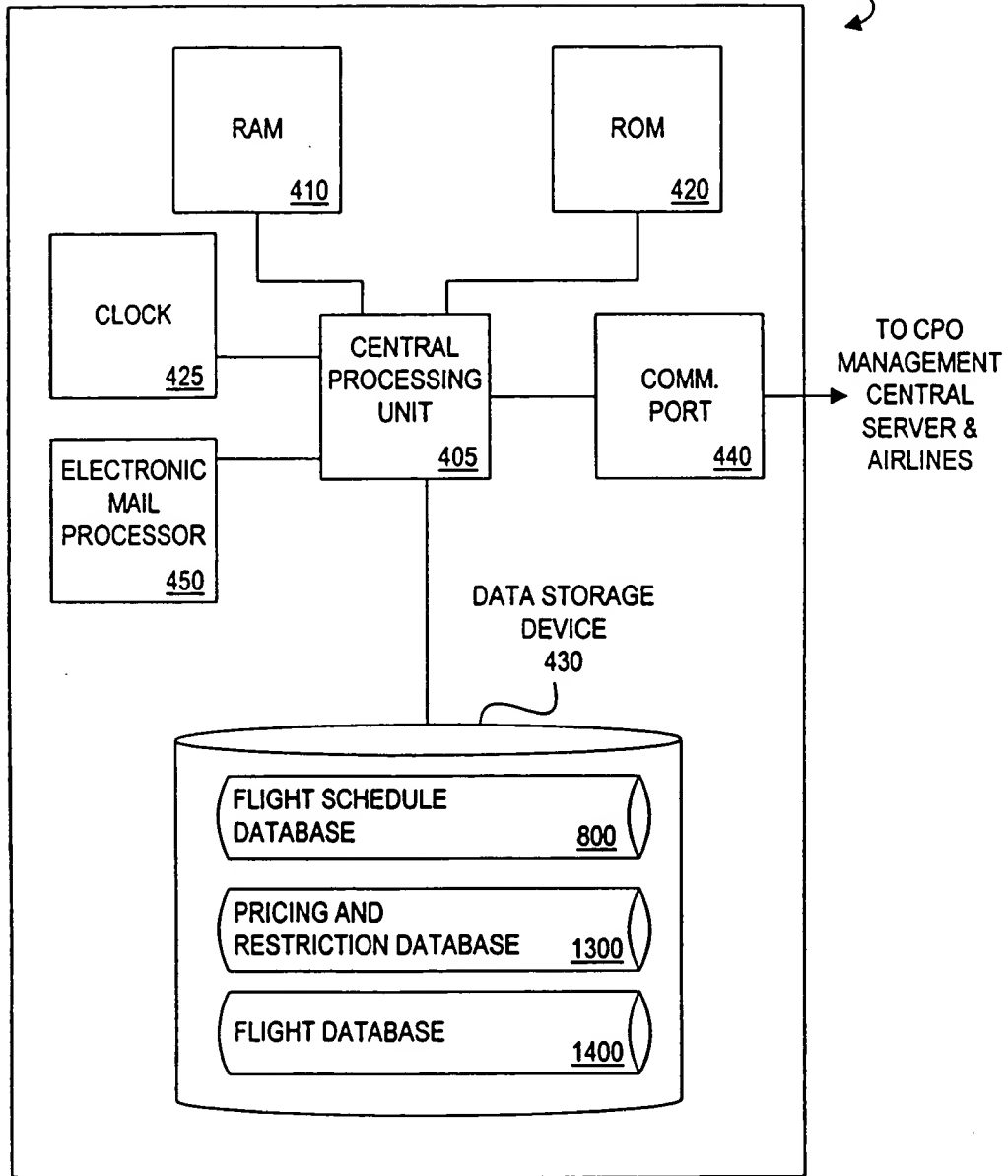


FIG. 4

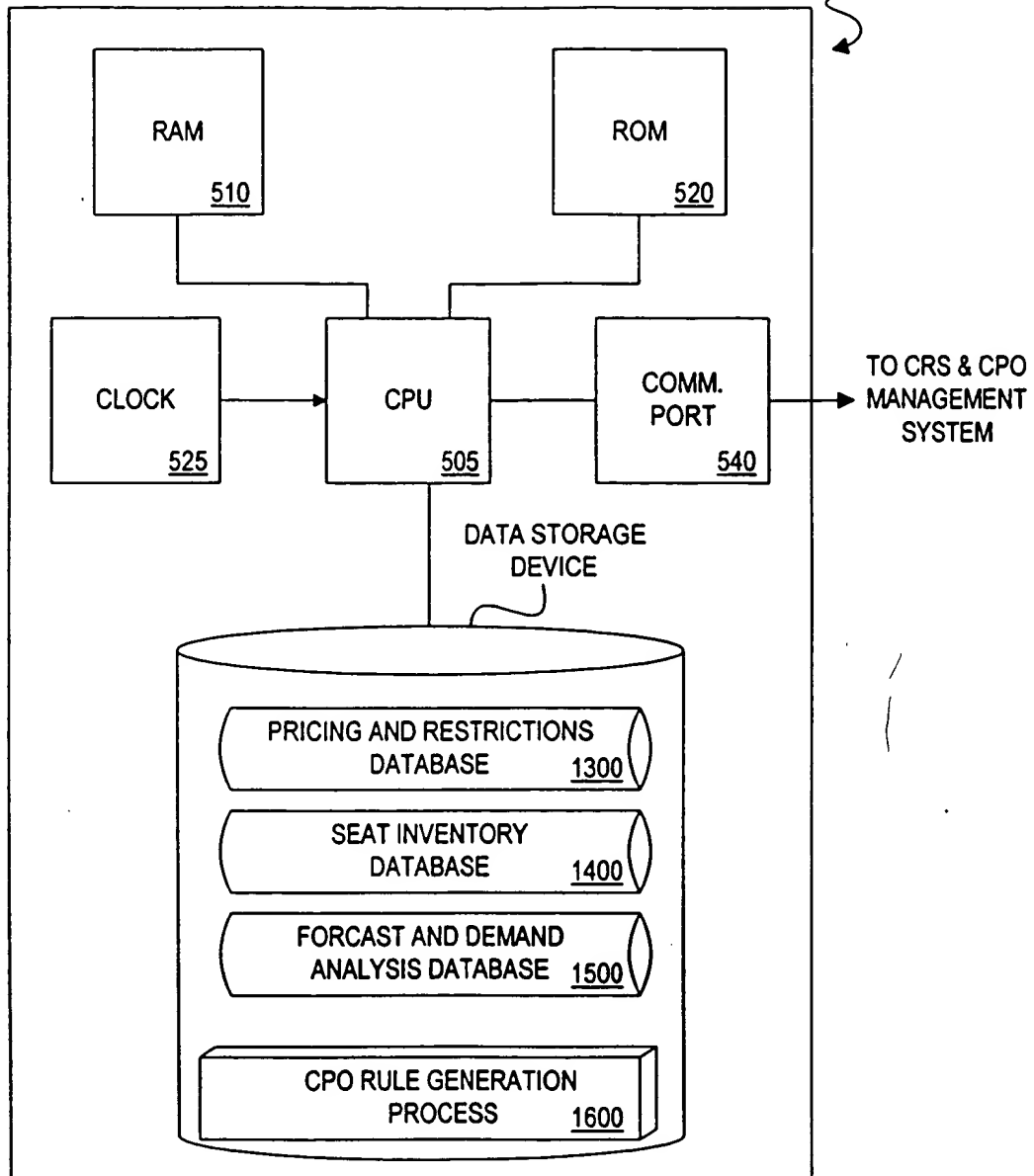


FIG. 5

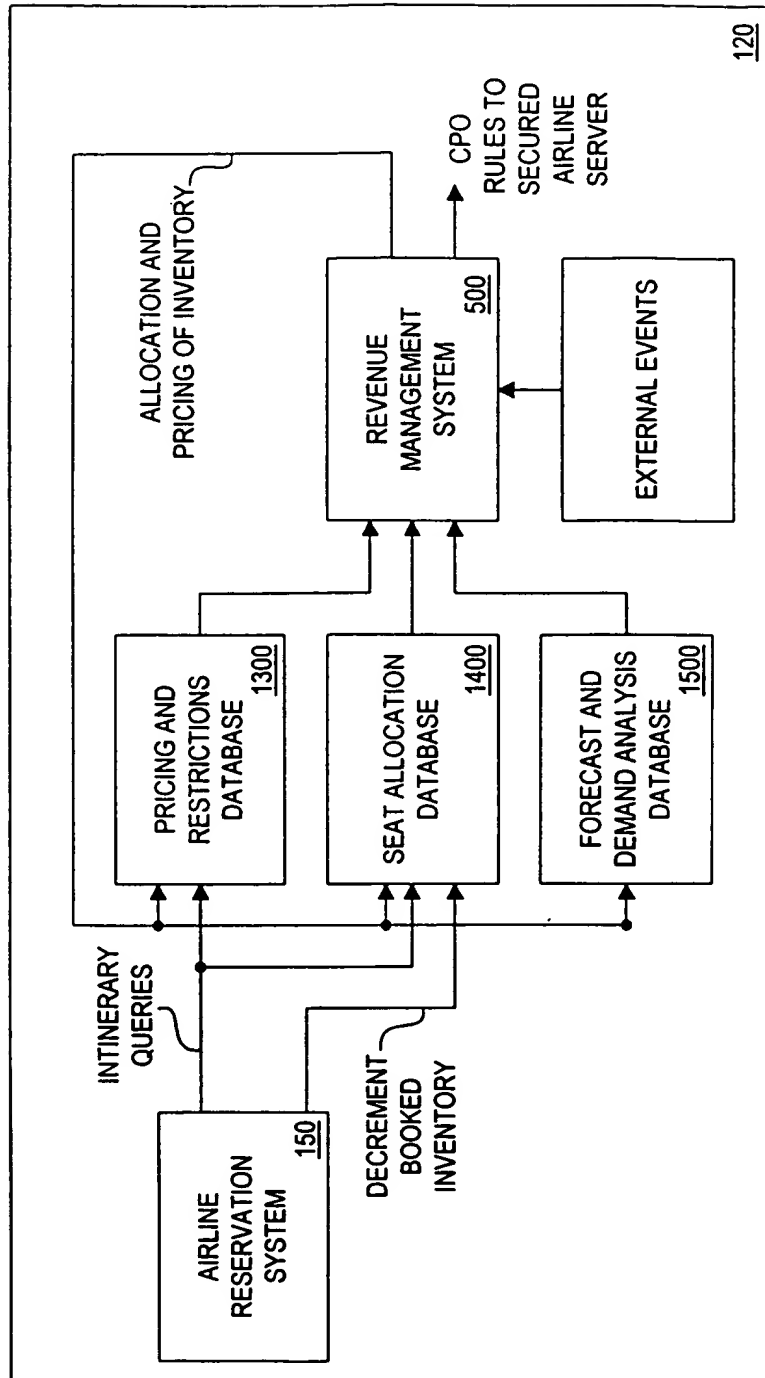


FIG. 5b









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FLIGHT SCHEDULE  
DATABASE 800

ORIGINATING AIRPORT	DESTINATION AIRPORT	DATE	TIME OF DEPARTURE	TIME OF ARRIVAL	AIRLINE	FLIGHT NUMBER	VIA
840	845	850	855	860	865	870	875
NASHVILLE, TN (BNA)	LOS ANGELES, CA (LAX)	12/12/96	12:00PM	6:00PM	AMERICAN	1870	NON-STOP
NEW YORK CITY (JFK)	LOS ANGELES, CA (LAX)	01/01/97	7:00AM	3:04PM	AMERICAN	226	CHICAGO
NEW YORK CITY (JFK)	SAN FRANCISCO, CA (SFO)	03/03/97	3:00PM	7:10PM	UNITED	300	NON-STOP

805

810

815

FIG. 8

11/27

CPO DATABASE 900

CPO NUMBER	DATE	TRAVEL AGENT NUMBER	PRIMARY PASSENGER NAME	CUSTOMER ID	COMPANION PASSENGERS	ORIGINATING CITY	DESTINATION CITY	CONNECTION RESTRICTIONS
920	925	930	935	940	945	950	955	960
23456	4/20/97	4321	JOHN DOE	12345	MRS. JOHN DOE, JOHN DOE JR.	NEW YORK, NY (JFK)	LOS ANGELES, CA (LAX)	LEAVE SATURDAY
23457	4/21/97	2648	JAMES SMITH	45231	ANN SMITH	NEW YORK, NY (JFK)	CHICAGO, IL (MDW/ORD)	ONE STOP
23457	4/21/97	2648	JAMES SMITH	45231	ANN SMITH	NEW YORK, NY (JFK)	CHICAGO, IL (MDW/ORD)	ONE STOP

905

910

FIG. 9a

12/27

CPO DATABASE

DATES OF DEPARTURE	DATES OF RETURN	NUMBER OF PASSENGERS TRAVELING	PRICE PER TICKET	OTHER RESTRICTIONS	STATUS	PASSENGER NAME RECORD NUMBER
<u>965</u>	<u>970</u>	<u>975</u>	<u>980</u>	<u>985</u>	<u>990</u>	<u>995</u>
4/12/97-4/14/97	4/29/97-4/30/97	3	\$547.01		ACCEPTED	33333
4/22/97	4/30/97	2	\$188.00	N/A	PENDING	
4/22/97	4/30/97	2	\$200.00	N/A	PENDING	

FIG. 9b

SECURED AIRLINE RULES DATABASE 1000

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RULE NUMBER 1010	ORIGINATING CITY 1012	DESTINATION CITY 1014	CONNECTION RESTRICTIONS 1016	FLIGHT NUMBERS 1018	DATE(S) OF DEPARTURE 1020	TIME(S) OF DEPARTURE 1022	DEPARTURE DAY OF WEEK 1024
45685	NEWARK, NJ (EWR)	ORLANDO, FL (MCO)	N/A	N/A	10/1/97- 10/31/97	N/A	TUES- THURS
45687	NEW YORK, NY (JFK)	CHICAGO, IL (ORD)	THRU CLEVELAND OR PITTSBURG	N/A	4/1/97- 5/31/97	11AM-2PM	TUES.

1002

1004

DATE(S) OF RETURN 1026	TIMES OF RETURN 1030	RETURN DAY OF WEEK 1032	NUMBER OF PASSENGERS TRAVELING 1034	LENGTH OF HAUL 1036	YIELD (\$/MILE) 1038	MINIMUM PRICE 1040	INVENTORY RESTRICTIONS OR AVAILABILITY 1042	ADVANCE PURCHASE REQUIREMENTS 1044
10/1/97- 10/31/97	N/A	TUES- THURS.	AT LEAST 2	N/A	N/A	\$165.00	K INVENTORY ONLY	WITHIN 21 DAYS OF FLIGHT
4/1/97- 5/31/97	11AM-2PM	MON- THURS.	2	N/A	N/A	\$150.00	Q OR K INVENTORY ONLY	7-21 DAYS PRIOR TO FLIGHT

FIG. 10a

SECURED AIRLINES RULES  
DATABASE- INVENTORY

1050

RULE NUMBER 1060	AIRLINE 1062	FLIGHT NO. 1064	DATE(S) 1066	NUMBER OF SEATS AVAILABLE 1068
234566	AMERICAN	249X	4/29/97	14
234567	AMERICAN	1209	5/1/97	25
2345678	AMERICAN	808	5/1/97	7

1052

1054

1056

FIG. 10b

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SECURED AIRLINES RULES  
DATABASE- PRICING

1075

AIRLINE 1088	ORIGINATING CITY 1090	DESTINATION CITY 1092	DATE(S) 1093	MINIMUM PRICE 1096
1080 AMERICAN	CLEVELAND, OH (CLE)	NEW YORK, NY (JFK)	5/2/97-5/13/97	\$75
1080 AMERICAN	CLEVELAND, OH (CLE)	LOS ANGELES, CA (LAX)	5/1/97-5/13/97	\$260
1080 AMERICAN	NEW YORK, NY (JFK)	CHICAGO, IL (ORD)	5/1/97-5/31/97	\$182

FIG. 10c

16/27

COUNTER OFFER RULES  
DATABASE 1100

RULE NUMBER	DATE(S) OF DEPARTURE	TIME(S) OF DEPARTURE	DATE(S) OF RETURN	TIME(S) OF RETURN
45687	WITHIN 1 DAY	WITHIN 2 HOURS	WITHIN 1 DAY	WITHIN 2 HOURS

1105

1110

NUMBER OF PASSENGERS TRAVELLING	LENGTH OF HAUL	YIELD	MINIMUM PRICE	ADVANCE PURCHASE REQUIREMENTS
AT LEAST 2	N/A	N/A	WITHIN 10%	WITHIN 2 DAYS

FIG. 11



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SECURED AIRLINE AUDIT  
DATABASE 1200

CPO NUMBER	ANSWER RESPONSE	DATE	TIME	PASSENGER NAME RECORD NUMBER	TICKET BOOKED
1220 2345	1225 YES	1230 4/5/97	1235 3:40PM	1235 56789	1235 ANOTHER AIRLINE
1210 2346	NO	4/6/97	2:00PM	98765	NO TICKET BOOKED
1215 2347	YES	4/8/97	12:00PM	34567	THIS AIRLINE

FIG. 12

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PRICING AND RESTRICTIONS  
DATABASE 1300

FLIGHT	DATE	INVENTORY K PRICE	INVENTORY K RESTRICTION	INVENTORY Y PRICE	INVENTORY Y RESTRICTION
AL654	4/16/97	\$50.00	7 DAY RETURN	\$40.00	RETURN FRIDAY
DB120	5/12/97	\$75.00	RETURN FRIDAY	\$60.00	ONE STOP
124C	6/3/97	\$25.00	ONE STOP	\$20.00	7 DAY RETURN

1305

1310

1315

FIG. 13

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SEAT ALLOCATION  
DATABASE 1400

FLIGHT NUMBER	DEPARTURE DATE	INVENTORY K SEATS AVAILABLE	INVENTORY Y SEATS AVAILABLE	TOTAL SEATS BOOKED	TOTAL CAPACITY
12345	5/15/97	42	114	144	300
23456	5/15/97	36	200	64	300
34567	5/15/97	58	97	145	300
45678	5/15/97	27	212	61	300

1405

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1415

1420

FIG. 14

20/27  
 FORECAST AND DEMAND  
 ANALYSIS DATABASE 1500

FLIGHT NUMBER	DEPARTURE DATE	ORIGINATING CITY	DESTINATION CITY	OFFERED PRICE	FARE CLASS	ACTUAL QUANTITY SOLD	FORECASTED QUANTITY
1530	1535	1540	1545	1550	1555	1560	
1234	3/3/97	NEW YORK (JFK)	LOS ANGELES (LAX)	\$349	Y	70	300
1234	3/3/97	NEW YORK (JFK)	LOS ANGELES (LAX)	\$339	Y	100	130
1234	3/3/97	NEW YORK (JFK)	LOS ANGELES (LAX)	\$329	Y	130	140
1234	3/3/97	NEW YORK (JFK)	LOS ANGELES (LAX)	\$409	K	7	20
1234	3/3/97	NEW YORK (JFK)	LOS ANGELES (LAX)	\$399	K	40	60

1505

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1515

1520

1525

FIG. 15

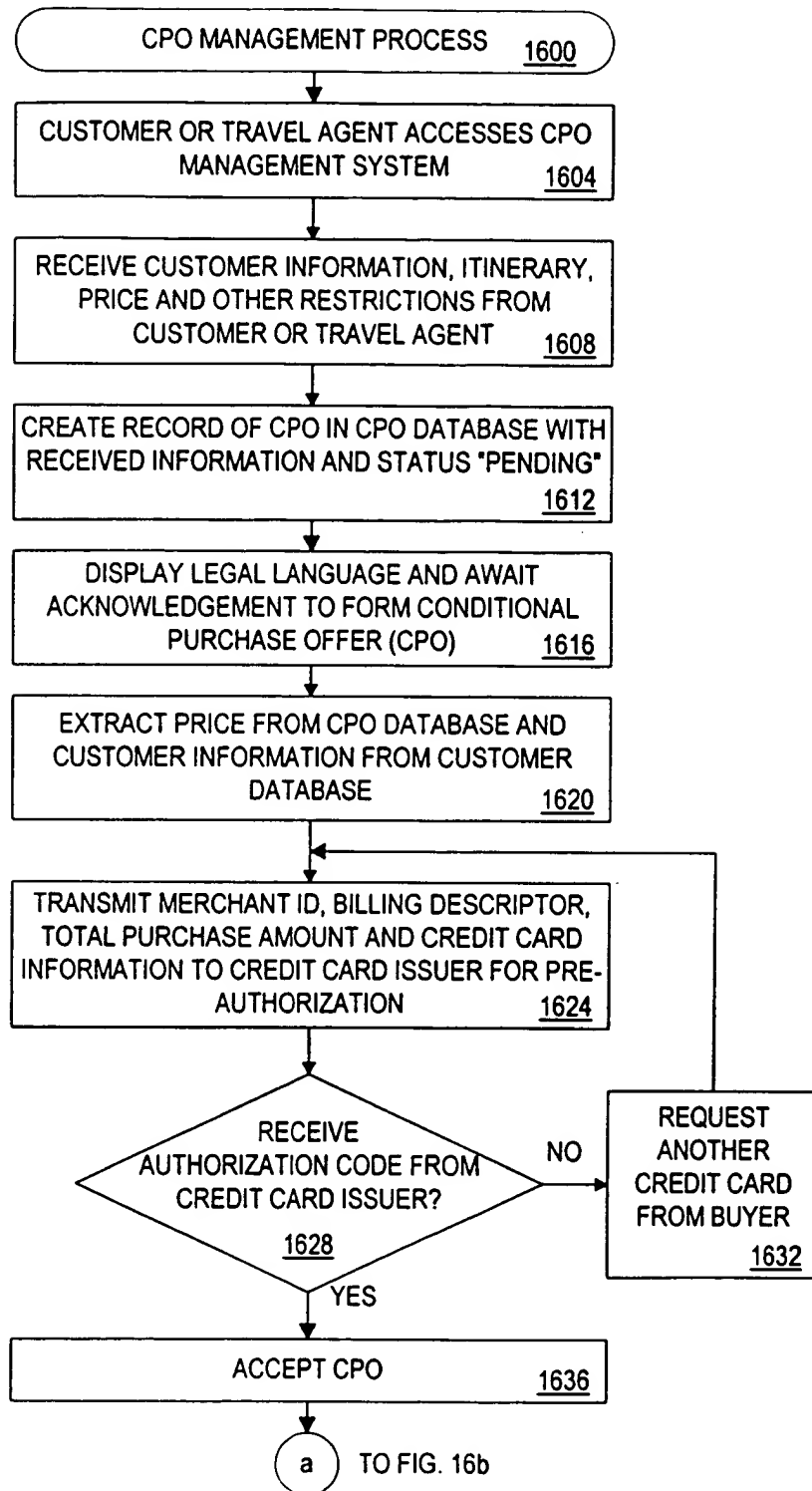


FIG. 16a

a FROM FIG. 16a

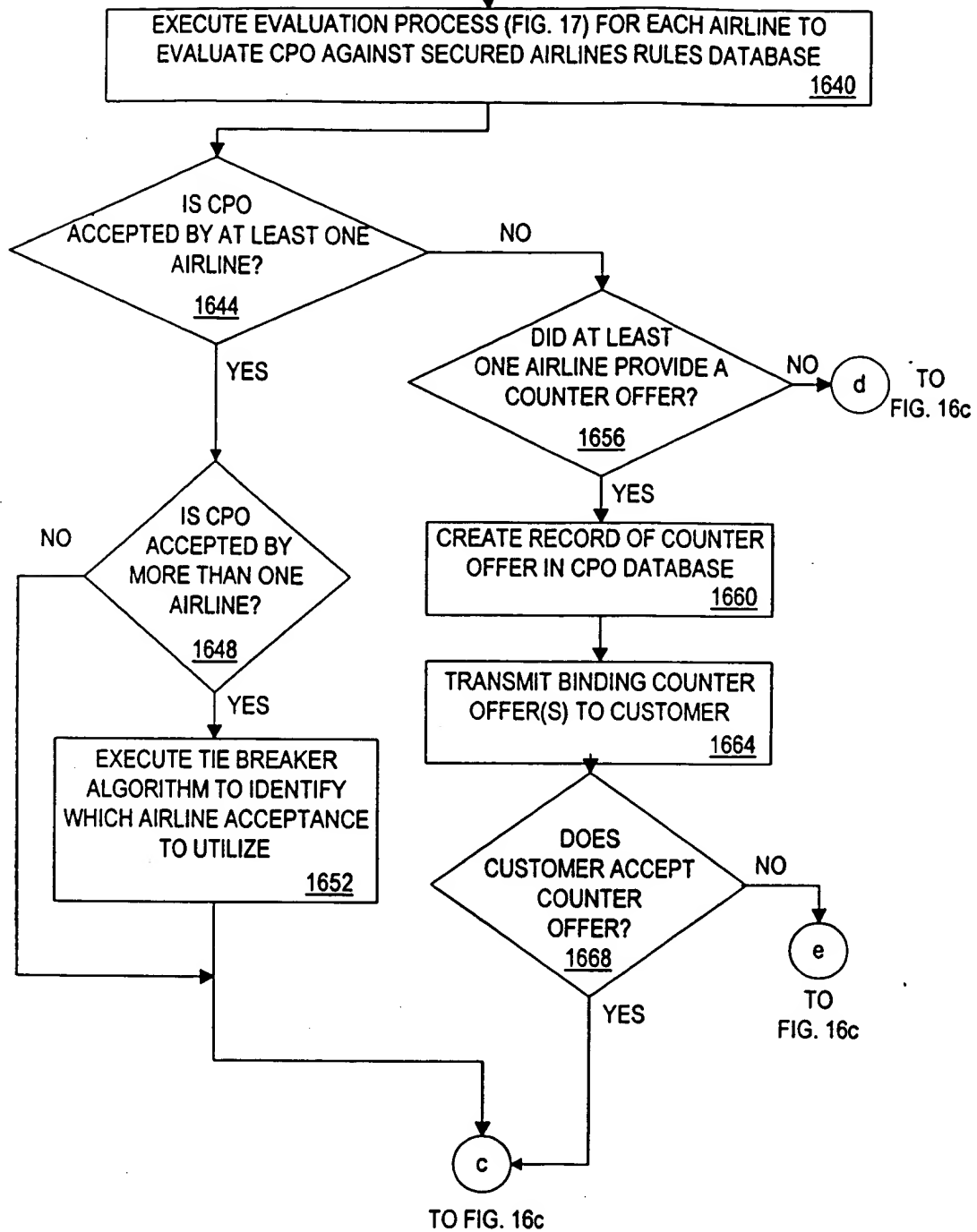


FIG. 16b

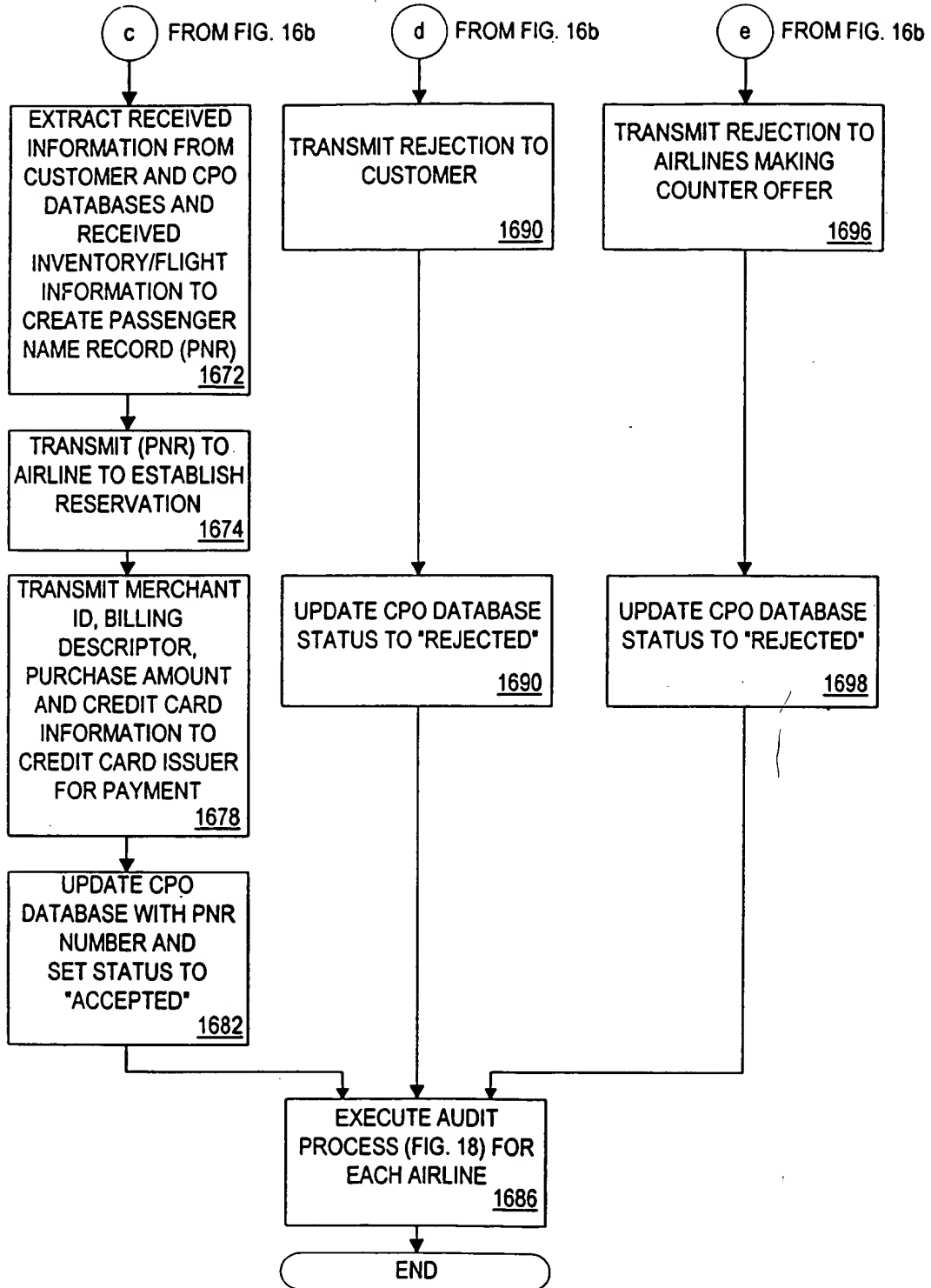
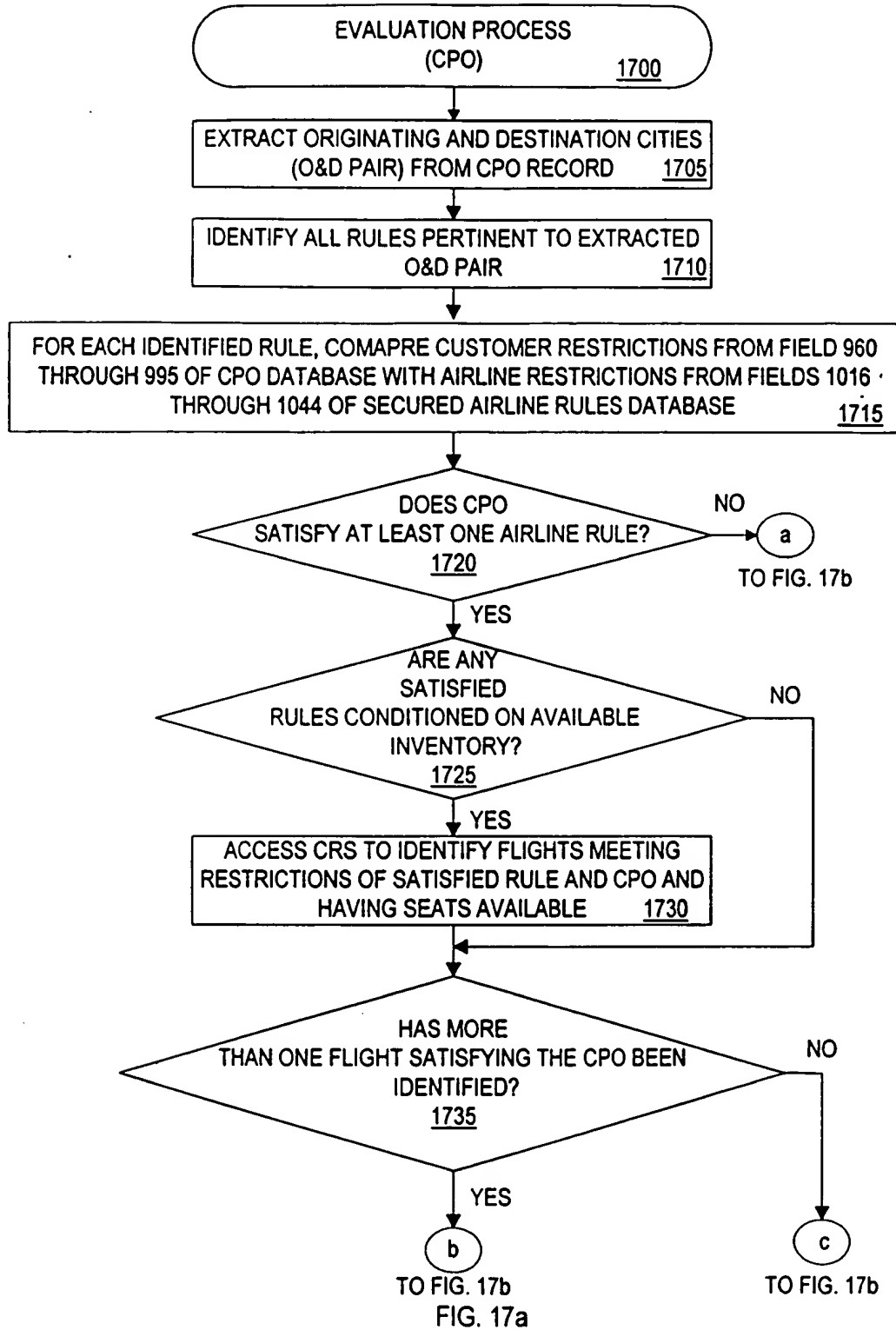


FIG. 16c





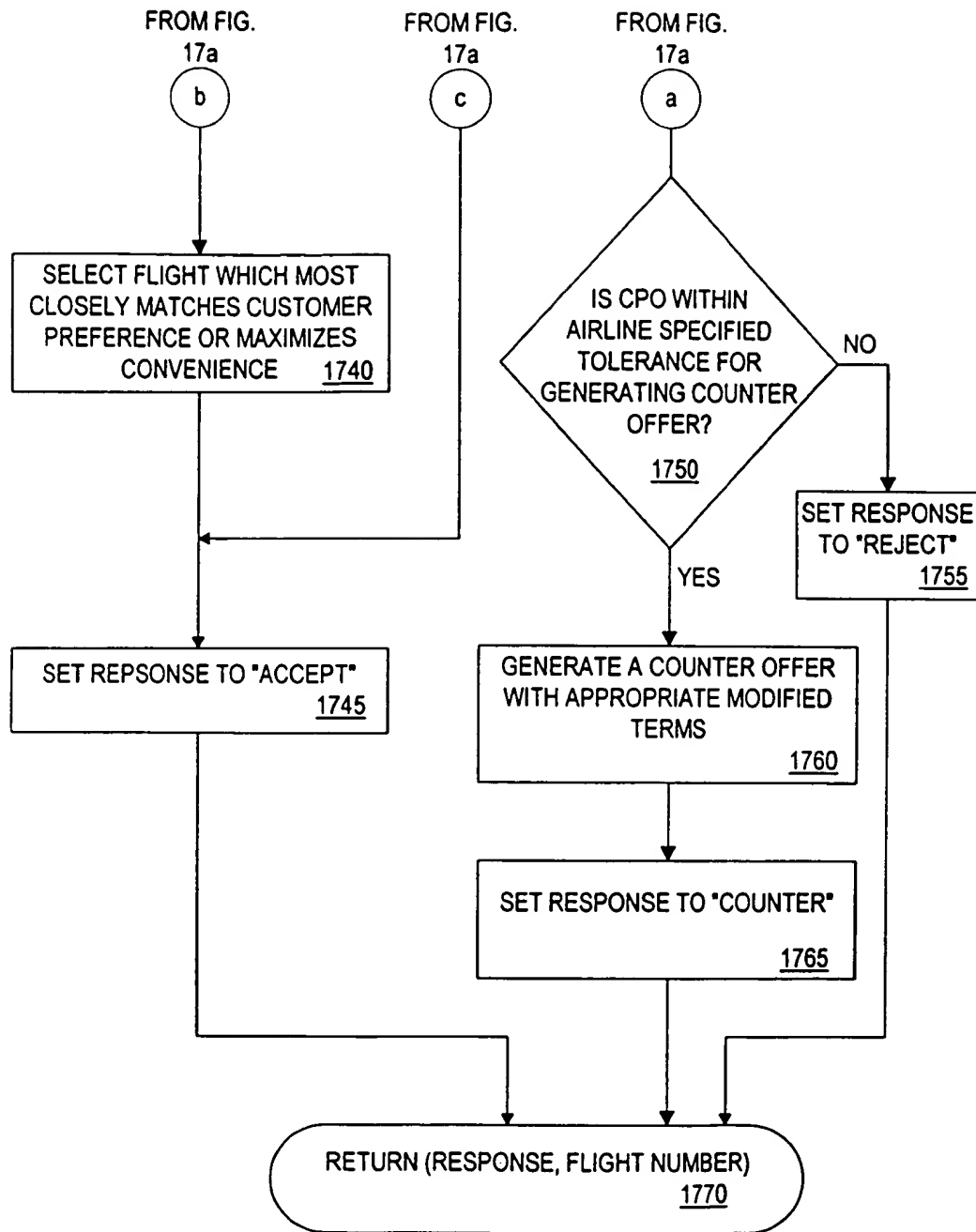


FIG. 17b

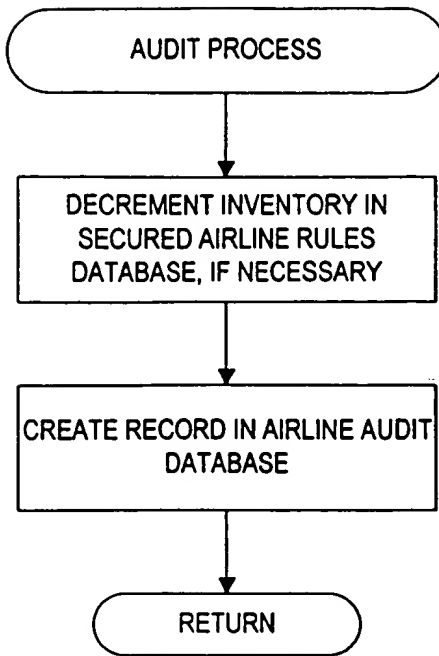


FIG. 18

